

# ZoomLink+

## Technical Data



### ZoomLink+ features

- Dynamic FM
- Multiple microphone settings
- SoftLanding technology
- Audio input for wireless TV and audio enjoyment
- Fast-charging battery
- GPS mode

### Product description

- A** Selectable microphone settings
  - B** High quality microphone array
  - C** Advanced signal processing:
    - Dynamic FM
    - SoftLanding technology
    - High resolution multi-channel noise cancellation
  - D** Lavalier cord with antenna
    - For operating ranges up to 50 feet (15 meters) indoors, and 170 feet (50 meters) outdoors
  - E** Retention clip
  - F** Easy to read LCD display
- Attachable interface with connections for:
- G** 3.5 mm socket for external audio sources (e.g. TV)
  - H** mini-USB socket for power supply and programming cable
  - I** 2.5 mm socket external microphone (MM8 and iBoom)



**ZoomLink+** is the product for those who know what they want: better hearing and understanding in meetings, when it is noisy, over distance, at home and at work, in the car and in the mall, even when watching TV or listening to music.

### Microphone settings



#### SuperZoom

Use SuperZoom for all situations featuring high noise levels, such as:

- Noisy restaurants and parties
- In the car or on the train
- When the transmitter is worn lavalier style (neck-hung) by your communication partner



#### Zoom

Use Zoom for all medium noise situations, such as:

- Face-to-face conversations
- Walking
- Meetings and conferences
- And many other everyday situations ...



#### Omni

Use Omni in situations such as:

- Round-table discussions in quiet environments
- Playing cards with friends

## General data

Type:	Dynamic FM transmitter
Dimensions:	L x W x H: 98 x 35 x 18mm (3.8 x 1.4 x 0.7 inches) (without interface and lavalier cord)
Weight:	56 g
Operating temperature range:	-10°C to +60°C
Humidity:	20–75%

## HF characteristics

Frequency range:	169.4 – 176 MHz (Band HA) 214.0 – 220.0 MHz (Band NB)
Frequency switching:	Integrated digital frequency synthesizer, max. 40 programmable channels
Frequency stability:	Better than $\pm 1$ kHz
Modulation:	FM (narrow-band), maximum frequency deviation $\Delta f_{dev} < 6$ kHz
Antenna:	Lavalier cord antenna for maximum operating range (up to 170feet/50m)
Signal-to-noise ratio: (microphone setting: Omni)	$> 45$ dB at $\Delta f_{dev} \geq 4$ kHz and $f_{mod} = 1$ kHz

ZoomLink+ combined with ML9i, ML10i, ML11i, ML12i, MLxi or any other Dynamic FM receiver from Phonak leads to a significantly higher signal to noise ratio.

## Audio characteristics

Audio frequency range:	100–6000 Hz
Microphone sensitivity: (Omni mode)	97 dB SPL at $f_{mod} = 1$ kHz for $\Delta f_{dev} = 4.0$ kHz (100% modulation) 70 dB SPL at $f_{mod} = 1$ kHz for $\Delta f_{dev} = 3.0$ kHz
Distortion: (Omni mode)	THD $< 0.2\%$ at 70 dB SPL with $f_{mod} = 1$ kHz for $\Delta f_{dev} = 3.0$ kHz

## Battery

Type:	Lithium Polymer 3.7 VDC
Dimensions:	Length: 37 mm Width: 27 mm Height: 6 mm
Capacity:	525 mAh
Operating time:	10 hours
Charging temperature range:	-10°C – +45°C
Charging time with charger:	100% in 2 hours, 80% in 1 hour

## Power supply

Type:	Dedicated ZoomLink+ charger
Connector:	mini-USB
Secondary voltage:	5.0 VDC
Current (min.):	500 mA
Important notice:	It is recommended to use only the original Phonak charging unit.
Fast-charge:	80% charged within an hour Fully charged in two hours The battery cannot be over-charged The adapter may become warm during charging.

## Built-in remote control for Phonak hearing instruments

(only for automatic HI Program Setting at ZoomLink+ ON/OFF switching)

Frequency:	40.96 kHz
Modulation:	CPFSK
Operating range:	$< 50$ cm

## Standards

Radiocom:	EN 300.422-1,-2 EN 300.330-1,-2 EN 300.328 CFR 47, part 95, part 15C
EMC:	EN 301.489-3, -9, 17
Electric Safety:	EN 60950-1

## Dynamic FM System data

Adaptive FM Advantage (AFMA), Ambient noise level  $\geq 73$  dB SPL

Dynamic FM advantage over hearing instrument:	25 dB
Dynamic FM advantage over traditional FM system:	15 dB
Wireless sub-audio data-link:	Frequency range: Above the audio band
Operating range:	As FM operating range

SuperZoom

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